

Claims

1. A vehicle comprising:
 - an internal combustion engine;
 - a turbocharger having an exhaust turbine in an exhaust train from the engine and a charge air compressor driven by the exhaust turbine;
 - a charge air channel between the compressor to the engine;
 - one or more pneumatic tires; and
 - a tire pressure adjusting device for adjusting the pressure of tires comprising:
 - a fluid connection between the charge air channel and the tires;
 - a valve in the fluid connection between the charge air channel and the tires which when open allows communication between the charge air channel and the tires whereby the turbocharger serves as the compressed air source for increasing the pressure in the tires.
2. The vehicle as defined by claim 1 further comprising distribution lines from the valve to each tire and individual tire valves in each distribution line.
3. The vehicle as defined by claim 1 further comprising a waste gate valve connected to the charge air channel.
4. The vehicle as defined by claim 1 further comprising an exhaust gas reheating device in the exhaust gas train before the exhaust gas turbine.
5. The vehicle as defined by claim 4 wherein the exhaust gas reheating device contains at least one combustion chamber in which fuel can be burned.
6. The vehicle as defined by claim 5 further comprising a fuel feed to the combustion chamber including a fuel valve to control the flow of fuel to the combustion chamber.

7. The vehicle as defined by claim 5 wherein the amount of fuel fed to the combustion chamber is adjustable as a function of the engine rpm, the turbocharger rpm and/or the temperature of the exhaust gas air entering the exhaust gas turbine.

8. The vehicle as defined by claim 1 further comprising a temperature sensor located in the exhaust gas train before the exhaust gas turbine.

9. The vehicle as defined by claim 1 further comprising a pressure sensor operable to detect the pressure in the charge air channel.

10. The vehicle as defined by claim 1 further comprising a secondary compression device to further increase the pressure of the compressed air generated by the turbocharger.